IN THE CLAIMS:

Please amend claims 1-4, as follows:

1. (Currently amended) A leak point wetness sensor for urological investigations comprising:

an instrument body having a passage therethrough to pass a catheter, which catheter is intended for insertion into the bladder through the urethra;

a receptacle in said instrument body so arranged and disposed as to receive liquid which leaks from the urethra past the inserted catheter;

a temperature sensitive detector sensor mounted to said instrument body where it will be contacted by said leaked liquid, said detector sensor being responsive to the temperature of said liquid and adapted to provide a signal output respective to said temperature;

a circuit adapted to generate and provide a reference output simulative of a selected temperature below that of an anticipated temperature of said leaked liquid, said circuit generating said reference output independent of ambient temperature; and

a comparator responsive to the difference between said outputs to detect and inform when the signal output sufficiently exceeds said reference output.

2. (Currently amended) ~~Apparatus~~ The sensor according to claim 1 in which drainage channels extend from said receptacle to the outside of said body to drain liquid from the receptacle.

3. (Currently amended) ~~Apparatus~~ The sensor according to claim 1 in which recorder means records related data when wetness is detected.

4. (Currently amended) A leak point wetness sensor for urological investigations comprising:

an instrument body having a passage therethrough to pass a catheter, which catheter is intended for insertion into the bladder through the urethra;

a receptacle in said instrument body so arranged and disposed as to receive liquid which leaks from the urethra past the inserted catheter;

a temperature sensitive detector sensor mounted to said instrument body where it will be contacted by said leaked liquid, said detector sensor being responsive to the temperature of said liquid and adapted to provide a signal output respective to said temperature;

a circuit adapted to ~~respond to~~ detect a rate of change ~~a~~ in the signal output from said temperature sensitive detector sensor, said detected rate of change corresponding to a rate of change in temperature at said detector sensor. ~~temperature of said leaked fluid when said change occurs at a rate indicative of contact with leaked liquid whose temperature approaches that of a human body.~~

Kindly add the following new claims 5 *et seq.*

5. (New) The sensor according to claim 1, wherein said comparator outputs a signal indicating that liquid has leaked from said urethra.

6. (New) The sensor according to claim 4, wherein said circuit generates a signal indicating that liquid has leaked from said urethra.

7. (New) The sensor according to claim 4, wherein said circuit differentiates said signal output from said temperature sensitive detector sensor.

8. (New) A leak point wetness device for urological investigations comprising:

an instrument body having a passage therethrough to pass a catheter, which catheter is intended for insertion into the bladder through the urethra;

a temperature sensitive detector sensor mounted to said instrument body where it will be contacted by liquid which leaks from the urethra past the inserted catheter, said detector sensor being responsive to the temperature of said liquid and adapted to provide a signal output respective to said temperature;

a circuit adapted to generate and provide a reference output simulative of a selected temperature below that of an anticipated temperature of said leaked liquid, said circuit generating said reference output independent of ambient temperature; and

a comparator responsive to the difference between said outputs to detect and inform when the signal output from said detector sensor sufficiently changes relative to said reference output.

9. (New) A leak point wetness device for urological investigations comprising:

an instrument body having a passage therethrough to pass a catheter, which catheter is intended for insertion into the bladder through the urethra;

a temperature sensitive detector sensor mounted to said instrument body where it will be contacted by liquid which leaks from the urethra past the inserted catheter, said detector sensor being responsive to the temperature of said liquid and adapted to provide a signal output respective to said temperature; and

means for detecting when the signal output from said detector sensor sufficiently changes relative to a reference signal that is independent of ambient temperature and simulative of a selected temperature below that of an anticipated temperature of said leaked liquid.

10. (New) The device according to claim 9, further comprising:

means for signaling the event of a leakage when the signal output from said detector sensor sufficiently changes relative to said reference signal.

11. (New) The device according to claim 9, further comprising:

means for generating said reference signal that is independent of ambient temperature and simulative of a selected temperature below that of an anticipated temperature of said leaked liquid.

12. (New) A leak point wetness device for urological investigations comprising:

an instrument body having a passage therethrough to pass a catheter, which catheter is intended for insertion into the bladder through the urethra;

a temperature sensitive detector sensor mounted to said instrument body where it will be contacted by liquid which leaks from the urethra past the inserted catheter, said detector sensor being responsive to the temperature of said liquid and adapted to provide a signal output respective to said temperature; and

a circuit adapted to detect a rate of change in the signal output from said temperature sensitive detector sensor, said detected rate of change corresponding to a rate of change in temperature at said detector sensor.